# Lothar H Wieler

## List of Publications by Citations



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|---|---|---|---|
| 176 papers | 9,351 citations | 49 h-index | 90 g-index |
| 188 ext. papers | 11,081 ext. citations | 5.8 avg, IF | 5.76 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 176 | Sex and virulence in Escherichia coli: an evolutionary perspective. *Molecular Microbiology*, **2006**, 60, 1136-51 | 4.1 | 1426 |
| 175 | Avian pathogenic, uropathogenic, and newborn meningitis-causing Escherichia coli: how closely related are they?. *International Journal of Medical Microbiology*, **2007**, 297, 163-76 | 3.7 | 362 |
| 174 | Characterization of a porcine intestinal epithelial cell line for in vitro studies of microbial pathogenesis in swine. *Histochemistry and Cell Biology*, **2006**, 125, 293-305 | 2.4 | 273 |
| 173 | A new Shiga toxin 2 variant (Stx2f) from Escherichia coli isolated from pigeons. *Applied and Environmental Microbiology*, **2000**, 66, 1205-8 | 4.8 | 243 |
| 172 | Extended-Spectrum Beta-Lactamases Producing E. coli in Wildlife, yet Another Form of Environmental Pollution?. *Frontiers in Microbiology*, **2011**, 2, 246 | 5.7 | 239 |
| 171 | Emergence of human pandemic O25:H4-ST131 CTX-M-15 extended-spectrum-beta-lactamase-producing Escherichia coli among companion animals. *Journal of Antimicrobial Chemotherapy*, **2010**, 65, 651-60 | 5.1 | 205 |
| 170 | Identification of protective and broadly conserved vaccine antigens from the genome of extraintestinal pathogenic Escherichia coli. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 9072-7 | 11.5 | 197 |
| 169 | Molecular epidemiology of avian pathogenic Escherichia coli (APEC) isolated from colisepticemia in poultry. *Veterinary Microbiology*, **2004**, 104, 91-101 | 3.3 | 177 |
| 168 | Intestine and environment of the chicken as reservoirs for extraintestinal pathogenic Escherichia coli strains with zoonotic potential. *Applied and Environmental Microbiology*, **2009**, 75, 184-92 | 4.8 | 167 |
| 167 | Livestock-Associated MRSA: The Impact on Humans. *Antibiotics*, **2015**, 4, 521-43 | 4.9 | 156 |
| 166 | Virulence genotype of Pasteurella multocida strains isolated from different hosts with various disease status. *Veterinary Microbiology*, **2006**, 114, 304-17 | 3.3 | 136 |
| 165 | Identification of enterotoxigenic Escherichia coli (ETEC) clades with long-term global distribution. *Nature Genetics*, **2014**, 46, 1321-6 | 36.3 | 134 |
| 164 | CTX-M-15-D-ST648 Escherichia coli from companion animals and horses: another pandemic clone combining multiresistance and extraintestinal virulence?. *Journal of Antimicrobial Chemotherapy*, **2014**, 69, 1224-30 | 5.1 | 124 |
| 163 | Prevalence of Methicillin-resistant Staphylococcus pseudintermedius isolated from clinical samples of companion animals and equidaes. *Veterinary Microbiology*, **2009**, 136, 197-201 | 3.3 | 122 |
| 162 | Combined Analysis of Variation in Core, Accessory and Regulatory Genome Regions Provides a Super-Resolution View into the Evolution of Bacterial Populations. *PLoS Genetics*, **2016**, 12, e1006280 | 6 | 117 |
| 161 | Methicillin-resistant staphylococci (MRS) and extended-spectrum beta-lactamases (ESBL)-producing Enterobacteriaceae in companion animals: nosocomial infections as one reason for the rising prevalence of these potential zoonotic pathogens in clinical samples. *International Journal of Medical Microbiology*, **2011**, 301, 635-41 | 3.7 | 115 |
| 160 | Rapid detection of virulence-associated genes in avian pathogenic Escherichia coli by multiplex polymerase chain reaction. *Avian Diseases*, **2005**, 49, 269-73 | 1.6 | 113 |

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| 159 | The broader context of antibiotic resistance: zinc feed supplementation of piglets increases the proportion of multi-resistant Escherichia coli in vivo. *International Journal of Medical Microbiology*, **2013**, 303, 396-403 | 3.7 | 106 |
| 158 | Fluorescence in situ hybridization (FISH) analysis of the interactions between honeybee larvae and Paenibacillus larvae, the causative agent of American foulbrood of honeybees (Apis mellifera). *Environmental Microbiology*, **2008**, 10, 1612-20 | 5.2 | 103 |
| 157 | Methicillin-resistant Staphylococcus aureus (MRSA) isolated from small and exotic animals at a university hospital during routine microbiological examinations. *Veterinary Microbiology*, **2008**, 127, 171-8 | 3.3 | 99 |
| 156 | Identification of genes required for avian Escherichia coli septicemia by signature-tagged mutagenesis. *Infection and Immunity*, **2005**, 73, 2818-27 | 3.7 | 97 |
| 155 | Comparable high rates of extended-spectrum-beta-lactamase-producing Escherichia coli in birds of prey from Germany and Mongolia. *PLoS ONE*, **2012**, 7, e53039 | 3.7 | 90 |
| 154 | Comparative molecular analysis substantiates zoonotic potential of equine methicillin-resistant Staphylococcus aureus. *Journal of Clinical Microbiology*, **2009**, 47, 704-10 | 9.7 | 90 |
| 153 | Widespread rapid emergence of a distinct methicillin- and multidrug-resistant Staphylococcus pseudintermedius (MRSP) genetic lineage in Europe. *Veterinary Microbiology*, **2010**, 144, 340-6 | 3.3 | 89 |
| 152 | Shiga toxin 2e-producing Escherichia coli isolates from humans and pigs differ in their virulence profiles and interactions with intestinal epithelial cells. *Applied and Environmental Microbiology*, **2005**, 71, 8855-63 | 4.8 | 88 |
| 151 | Sharing more than friendship--nasal colonization with coagulase-positive staphylococci (CPS) and co-habitation aspects of dogs and their owners. *PLoS ONE*, **2012**, 7, e35197 | 3.7 | 83 |
| 150 | Influence of a probiotic strain of Enterococcus faecium on Salmonella enterica serovar Typhimurium DT104 infection in a porcine animal infection model. *Applied and Environmental Microbiology*, **2009**, 75, 2621-8 | 4.8 | 81 |
| 149 | Antimicrobial resistance profiles of Escherichia coli from common European wild bird species. *Veterinary Microbiology*, **2010**, 144, 219-25 | 3.3 | 81 |
| 148 | The chicken as a natural model for extraintestinal infections caused by avian pathogenic Escherichia coli (APEC). *Microbial Pathogenesis*, **2008**, 45, 361-9 | 3.8 | 80 |
| 147 | Clonal spread and interspecies transmission of clinically relevant ESBL-producing Escherichia coli of ST410--another successful pandemic clone?. *FEMS Microbiology Ecology*, **2016**, 92, | 4.3 | 77 |
| 146 | Adhesive threads of extraintestinal pathogenic Escherichia coli. *Gut Pathogens*, **2009**, 1, 22 | 5.4 | 75 |
| 145 | Alarming proportions of methicillin-resistant Staphylococcus aureus (MRSA) in wound samples from companion animals, Germany 2010-2012. *PLoS ONE*, **2014**, 9, e85656 | 3.7 | 71 |
| 144 | Clonal spread of highly successful ST15-CTX-M-15 Klebsiella pneumoniae in companion animals and horses. *Journal of Antimicrobial Chemotherapy*, **2014**, 69, 2676-80 | 5.1 | 69 |
| 143 | Virulence characteristics and genetic affinities of multiple drug resistant uropathogenic Escherichia coli from a semi urban locality in India. *PLoS ONE*, **2011**, 6, e18063 | 3.7 | 68 |
| 142 | Multiresistant uropathogenic Escherichia coli from a region in India where urinary tract infections are endemic: genotypic and phenotypic characteristics of sequence type 131 isolates of the CTX-M-15 extended-spectrum-β-lactamase-producing lineage. *Antimicrobial Agents and Chemotherapy*, **2012**, 56, 6358-65 | 5.9 | 66 |

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| 141 | Species-wide whole genome sequencing reveals historical global spread and recent local persistence in Shigella flexneri. *ELife*, **2015**, 4, e07335 | 8.9 | 65 |
| 140 | High prevalence of treponemes in bovine digital dermatitis-a molecular epidemiology. *Veterinary Microbiology*, **2008**, 131, 293-300 | 3.3 | 65 |
| 139 | Sequencing and functional annotation of avian pathogenic Escherichia coli serogroup O78 strains reveal the evolution of E. coli lineages pathogenic for poultry via distinct mechanisms. *Infection and Immunity*, **2013**, 81, 838-49 | 3.7 | 64 |
| 138 | Persistent anthrax as a major driver of wildlife mortality in a tropical rainforest. *Nature*, **2017**, 548, 82-86 | 50.4 | 63 |
| 137 | Carriage of Extended-Spectrum Beta-Lactamase-Plasmids Does Not Reduce Fitness but Enhances Virulence in Some Strains of Pandemic E. coli Lineages. *Frontiers in Microbiology*, **2016**, 7, 336 | 5.7 | 61 |
| 136 | Composition of intestinal Enterobacteriaceae populations of healthy domestic pigs. *Microbiology (United Kingdom)*, **2007**, 153, 3830-3837 | 2.9 | 57 |
| 135 | MRSA variant in companion animals. *Emerging Infectious Diseases*, **2012**, 18, 2017-20 | 10.2 | 55 |
| 134 | Comparative Genomic Analysis of Globally Dominant ST131 Clone with Other Epidemiologically Successful Extraintestinal Pathogenic (ExPEC) Lineages. *MBio*, **2017**, 8, | 7.8 | 53 |
| 133 | Frequent combination of antimicrobial multiresistance and extraintestinal pathogenicity in Escherichia coli isolates from urban rats (Rattus norvegicus) in Berlin, Germany. *PLoS ONE*, **2012**, 7, e50331 | 3.7 | 51 |
| 132 | First insights into antimicrobial resistance among faecal Escherichia coli isolates from small wild mammals in rural areas. *Science of the Total Environment*, **2010**, 408, 3519-22 | 10.2 | 50 |
| 131 | Relevance of Campylobacter to public health--the need for a One Health approach. *International Journal of Medical Microbiology*, **2014**, 304, 817-23 | 3.7 | 49 |
| 130 | Impact of the locus of enterocyte effacement pathogenicity island on the evolution of pathogenic Escherichia coli. *International Journal of Medical Microbiology*, **2004**, 294, 103-13 | 3.7 | 49 |
| 129 | High carriage rate of ESBL-producing Enterobacteriaceae at presentation and follow-up among travellers with gastrointestinal complaints returning from India and Southeast Asia. *Journal of Travel Medicine*, **2016**, 23, tav024 | 12.9 | 49 |
| 128 | Cyclic-di-GMP signalling and biofilm-related properties of the Shiga toxin-producing 2011 German outbreak Escherichia coli O104:H4. *EMBO Molecular Medicine*, **2014**, 6, 1622-37 | 12 | 48 |
| 127 | Feeding the probiotic Enterococcus faecium strain NCIMB 10415 to piglets specifically reduces the number of Escherichia coli pathotypes that adhere to the gut mucosa. *Applied and Environmental Microbiology*, **2013**, 79, 7896-904 | 4.8 | 48 |
| 126 | No evidence of the Shiga toxin-producing E. coli O104:H4 outbreak strain or enteroaggregative E. coli (EAEC) found in cattle faeces in northern Germany, the hotspot of the 2011 HUS outbreak area. *Gut Pathogens*, **2011**, 3, 17 | 5.4 | 48 |
| 125 | Chromosomally encoded ESBL genes in Escherichia coli of ST38 from Mongolian wild birds. *Journal of Antimicrobial Chemotherapy*, **2017**, 72, 1310-1313 | 5.1 | 47 |
| 124 | A transgenic probiotic secreting a parasite immunomodulator for site-directed treatment of gut inflammation. *Molecular Therapy*, **2014**, 22, 1730-40 | 11.7 | 47 |

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| 123 | Shiga toxin producing Escherichia coli: identification of non-O157:H7-Super-Shedding cows and related risk factors. *Gut Pathogens*, **2010**, 2, 7 | 5.4 | 47 |
| 122 | CTX-M-15-type extended-spectrum beta-lactamases-producing Escherichia coli from wild birds in Germany. *Environmental Microbiology Reports*, **2010**, 2, 641-5 | 3.7 | 46 |
| 121 | Genetic diversity of porcine Pasteurella multocida strains from the respiratory tract of healthy and diseased swine. *Veterinary Microbiology*, **2009**, 139, 97-105 | 3.3 | 45 |
| 120 | ExPEC-typical virulence-associated genes correlate with successful colonization by intestinal E. coli in a small piglet group. *Environmental Microbiology*, **2008**, 10, 1742-51 | 5.2 | 44 |
| 119 | Bacillus cereus var. toyoi enhanced systemic immune response in piglets. *Veterinary Immunology and Immunopathology*, **2007**, 118, 1-11 | 2 | 44 |
| 118 | Extraintestinal pathogenic Escherichia coli (ExPEC) of human and avian origin belonging to sequence type complex 95 (STC95) portray indistinguishable virulence features. *International Journal of Medical Microbiology*, **2014**, 304, 835-42 | 3.7 | 43 |
| 117 | Haemolysin of Escherichia coli in IBD: a potentiator of inflammatory activity in the colon. *Gut*, **2014**, 63, 1893-901 | 19.2 | 43 |
| 116 | Detection of pandemic B2-O25-ST131 Escherichia coli harbouring the CTX-M-9 extended-spectrum beta-lactamase type in a feral urban brown rat (Rattus norvegicus). *Journal of Antimicrobial Chemotherapy*, **2010**, 65, 582-4 | 5.1 | 43 |
| 115 | Characterization of Shiga-like toxin producing Escherichia coli (SLTEC) isolated from calves with and without diarrhoea. *Zentralblatt Fur Bakteriologie: International Journal of Medical Microbiology*, **1992**, 276, 243-53 | | 43 |
| 114 | Molecular Epidemiology and Genome Dynamics of New Delhi Metallo-Lactamase-Producing Extraintestinal Pathogenic Escherichia coli Strains from India. *Antimicrobial Agents and Chemotherapy*, **2016**, 60, 6795-6805 | 5.9 | 43 |
| 113 | Risk of Transmission of Antimicrobial Resistant from Commercial Broiler and Free-Range Retail Chicken in India. *Frontiers in Microbiology*, **2017**, 8, 2120 | 5.7 | 42 |
| 112 | Isolation and characterization of intestinal Escherichia coli clones from wild boars in Germany. *Applied and Environmental Microbiology*, **2009**, 75, 695-702 | 4.8 | 42 |
| 111 | Phylogeny and disease association of Shiga toxin-producing Escherichia coli O91. *Emerging Infectious Diseases*, **2009**, 15, 1474-7 | 10.2 | 42 |
| 110 | A novel locus of enterocyte effacement (LEE) pathogenicity island inserted at pheV in bovine Shiga toxin-producing Escherichia coli strain O103:H2. *FEMS Microbiology Letters*, **2001**, 204, 75-9 | 2.9 | 42 |
| 109 | Genomic and Functional Analysis of Emerging Virulent and Multidrug-Resistant Lineage Sequence Type 648. *Antimicrobial Agents and Chemotherapy*, **2019**, 63, | 5.9 | 41 |
| 108 | Signature-tagged mutagenesis in a chicken infection model leads to the identification of a novel avian pathogenic Escherichia coli fimbrial adhesin. *PLoS ONE*, **2009**, 4, e7796 | 3.7 | 40 |
| 107 | Adhesion of human and animal Escherichia coli strains in association with their virulence-associated genes and phylogenetic origins. *Applied and Environmental Microbiology*, **2013**, 79, 5814-29 | 4.8 | 38 |
| 106 | Insertion site of the locus of enterocyte effacement in enteropathogenic and enterohemorrhagic Escherichia coli differs in relation to the clonal phylogeny of the strains. *FEMS Microbiology Letters*, **1997**, 156, 49-53 | 2.9 | 38 |

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| 105 | Timely approaches to identify probiotic species of the genus Lactobacillus. *Gut Pathogens*, **2013**, 5, 27 | 5.4 | 37 |
| 104 | E. coli Nissle 1917 Affects Salmonella adhesion to porcine intestinal epithelial cells. *PLoS ONE*, **2011**, 6, e14712 | 3.7 | 37 |
| 103 | Infections with avian pathogenic and fecal Escherichia coli strains display similar lung histopathology and macrophage apoptosis. *PLoS ONE*, **2012**, 7, e41031 | 3.7 | 37 |
| 102 | The zoonotic potential of Clostridium difficile from small companion animals and their owners. *PLoS ONE*, **2018**, 13, e0193411 | 3.7 | 37 |
| 101 | The PGRS Domain of Mycobacterium tuberculosis PE_PGRS Protein Rv0297 Is Involved in Endoplasmic Reticulum Stress-Mediated Apoptosis through Toll-Like Receptor 4. *MBio*, **2018**, 9, | 7.8 | 36 |
| 100 | Helcococcus ovis, an emerging pathogen in bovine valvular endocarditis. *Journal of Clinical Microbiology*, **2008**, 46, 3291-5 | 9.7 | 35 |
| 99 | Highly Virulent Non-O157 Enterohemorrhagic Escherichia coli (EHEC) Serotypes Reflect Similar Phylogenetic Lineages, Providing New Insights into the Evolution of EHEC. *Applied and Environmental Microbiology*, **2015**, 81, 7041-7 | 4.8 | 33 |
| 98 | High dietary zinc feeding promotes persistence of multi-resistant E. coli in the swine gut. *PLoS ONE*, **2018**, 13, e0191660 | 3.7 | 33 |
| 97 | Phylogenetic and molecular analysis of food-borne shiga toxin-producing Escherichia coli. *Applied and Environmental Microbiology*, **2013**, 79, 2731-40 | 4.8 | 33 |
| 96 | Influenza-associated pneumonia as reference to assess seriousness of coronavirus disease (COVID-19). *Eurosurveillance*, **2020**, 25, | 19.8 | 33 |
| 95 | Inactivation of Shiga toxin-producing Escherichia coli O104:H4 using cold atmospheric pressure plasma. *Journal of Bioscience and Bioengineering*, **2015**, 120, 275-9 | 3.3 | 32 |
| 94 | Extended-spectrum beta-lactamases-producing gram-negative bacteria in companion animals: action is clearly warranted!. *Berliner Und Munchener Tierarztliche Wochenschrift*, **2011**, 124, 94-101 | | 32 |
| 93 | Treponema berlinense sp. nov. and Treponema porcinum sp. nov., novel spirochaetes isolated from porcine faeces. *International Journal of Systematic and Evolutionary Microbiology*, **2005**, 55, 1675-1680 | 2.2 | 30 |
| 92 | The enterohemolysin phenotype of bovine Shiga-like toxin-producing Escherichia coli (SLTEC) is encoded by the EHEC-hemolysin gene. *Veterinary Microbiology*, **1996**, 52, 153-64 | 3.3 | 30 |
| 91 | Phylogenetic analysis of Staphylococcus aureus CC398 reveals a sub-lineage epidemiologically associated with infections in horses. *PLoS ONE*, **2014**, 9, e88083 | 3.7 | 30 |
| 90 | Detection of Trichinella spiralis, T. britovi and T. pseudospiralis in muscle tissue with real-time PCR. *Journal of Microbiological Methods*, **2008**, 75, 287-92 | 2.8 | 29 |
| 89 | Putative connection between zoonotic multiresistant extended-spectrum beta-lactamase (ESBL)-producing Escherichia coli in dog feces from a veterinary campus and clinical isolates from dogs. *Infection Ecology and Epidemiology*, **2015**, 5, 25334 | 4.3 | 28 |
| 88 | Role of F1C fimbriae, flagella, and secreted bacterial components in the inhibitory effect of probiotic Escherichia coli Nissle 1917 on atypical enteropathogenic E. coli infection. *Infection and Immunity*, **2014**, 82, 1801-12 | 3.7 | 27 |

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| 87 | National antibiotic resistance monitoring in veterinary pathogens from sick food-producing animals: the German programme and results from the 2001 pilot study. *International Journal of Antimicrobial Agents*, **2003**, 22, 420-8 | 14.3 | 27 |
| 86 | Dissemination of pheU- and pheV-located genomic islands among enteropathogenic (EPEC) and enterohemorrhagic (EHEC) E. coli and their possible role in the horizontal transfer of the locus of enterocyte effacement (LEE). *International Journal of Medical Microbiology*, **2003**, 292, 463-75 | 3.7 | 27 |
| 85 | Clinically Relevant ESBL-Producing ST307 and ST38 in an Urban West African Rat Population. *Frontiers in Microbiology*, **2018**, 9, 150 | 5.7 | 26 |
| 84 | Probiotic Escherichia coli Nissle 1917 reduces growth, Shiga toxin expression, release and thus cytotoxicity of enterohemorrhagic Escherichia coli. *International Journal of Medical Microbiology*, **2015**, 305, 20-6 | 3.7 | 26 |
| 83 | Characterization of a yjjQ mutant of avian pathogenic Escherichia coli (APEC). *Microbiology (United Kingdom)*, **2008**, 154, 1082-1093 | 2.9 | 26 |
| 82 | Adaptation of host transmission cycle during Clostridium difficile speciation. *Nature Genetics*, **2019**, 51, 1315-1320 | 36.3 | 25 |
| 81 | Association of Treponema spp. with canine periodontitis. *Veterinary Microbiology*, **2008**, 127, 334-42 | 3.3 | 25 |
| 80 | Mallard ducks - a waterfowl species with high risk of distributing Escherichia coli pathogenic for humans. *Environmental Microbiology Reports*, **2009**, 1, 510-7 | 3.7 | 24 |
| 79 | Description of a novel intimin variant (type zeta) in the bovine O84:NM verotoxin-producing Escherichia coli strain 537/89 and the diagnostic value of intimin typing. *Experimental Biology and Medicine*, **2003**, 228, 370-6 | 3.7 | 24 |
| 78 | Antimicrobial susceptibility of Escherichia coli from swine, horses, dogs and cats as determined in the BfT-GermVet monitoring program 2004-2006. *Berliner Und Munchener Tierarztliche Wochenschrift*, **2007**, 120, 391-401 | | 24 |
| 77 | The gut microbiome of horses: current research on equine enteral microbiota and future perspectives. *Animal Microbiome*, **2019**, 1, 14 | 4.1 | 23 |
| 76 | Description of a 111-kb pathogenicity island (PAI) encoding various virulence features in the enterohemorrhagic E. coli (EHEC) strain RW1374 (O103:H2) and detection of a similar PAI in other EHEC strains of serotype 0103:H2. *International Journal of Medical Microbiology*, **2005**, 294, 417-25 | 3.7 | 22 |
| 75 | A Core Genome Multilocus Sequence Typing Scheme for Enterococcus faecalis. *Journal of Clinical Microbiology*, **2019**, 57, | 9.7 | 22 |
| 74 | Comparative Genomics of Isolated from Skin and Soft Tissue and Other Extraintestinal Infections. *MBio*, **2017**, 8, | 7.8 | 21 |
| 73 | Companion animals: a relevant source of extended-spectrum β-lactamase-producing fluoroquinolone-resistant Citrobacter freundii. *International Journal of Antimicrobial Agents*, **2011**, 37, 86-7 | 14.3 | 21 |
| 72 | O-acetyltransferase gene neuO is segregated according to phylogenetic background and contributes to environmental desiccation resistance in Escherichia coli K1. *Environmental Microbiology*, **2009**, 11, 3154-65 | 5.2 | 21 |
| 71 | Effects of Bacillus cereus var. toyoi on immune parameters of pregnant sows. *Veterinary Immunology and Immunopathology*, **2009**, 127, 26-37 | 2 | 21 |
| 70 | The Accessory Genome of Shiga Toxin-Producing Escherichia coli Defines a Persistent Colonization Type in Cattle. *Applied and Environmental Microbiology*, **2016**, 82, 5455-64 | 4.8 | 21 |

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| 69 | Verotoxin 1 from Escherichia coli affects Gb3/CD77+ bovine lymphocytes independent of interleukin-2, tumor necrosis factor-alpha, and interferon-alpha. *Experimental Biology and Medicine*, **2003**, 228, 377-86 | 3.7 | 20 |
| 68 | SLIMM: species level identification of microorganisms from metagenomes. *PeerJ*, **2017**, 5, e3138 | 3.1 | 20 |
| 67 | Staphylococcus aureus and MRSA colonization rates among personnel and dogs in a small animal hospital: association with nosocomial infections. *Berliner Und Munchener Tierarztliche Wochenschrift* , **2009**, 122, 178-85 | | 20 |
| 66 | Genomic and Functional Portrait of a Highly Virulent, CTX-M-15-Producing H30-Rx Subclone of Escherichia coli Sequence Type 131. *Antimicrobial Agents and Chemotherapy*, **2015**, 59, 6087-95 | 5.9 | 19 |
| 65 | Presence of Clostridium difficile in poultry and poultry meat in Egypt. *Anaerobe*, **2018**, 51, 21-25 | 2.8 | 19 |
| 64 | Detection of bla(CTX-M-15) extended-spectrum beta-lactamase genes in Escherichia coli from hospital patients in Nigeria. *International Journal of Antimicrobial Agents*, **2010**, 35, 206-7 | 14.3 | 19 |
| 63 | Adherent-invasive Escherichia coli phenotype displayed by intestinal pathogenic E. coli strains from cats, dogs, and swine. *Applied and Environmental Microbiology*, **2011**, 77, 5813-7 | 4.8 | 19 |
| 62 | Naturally occurring Clostridium perfringens nontoxic alpha-toxin variant as a potential vaccine candidate against alpha-toxin-associated diseases. *Infection and Immunity*, **2001**, 69, 7194-6 | 3.7 | 19 |
| 61 | Globotriaosylceramide (Gb(3)/CD77) is synthesized and surface expressed by bovine lymphocytes upon activation in vitro. *Veterinary Immunology and Immunopathology*, **2001**, 83, 19-36 | 2 | 19 |
| 60 | Enterohemorrhagic Escherichia coli (EHEC) strains of serogroup O118 display three distinctive clonal groups of EHEC pathogens. *Journal of Clinical Microbiology*, **2000**, 38, 2162-9 | 9.7 | 19 |
| 59 | Highly diverse and antimicrobial susceptible Escherichia coli display a naïve bacterial population in fruit bats from the Republic of Congo. *PLoS ONE*, **2017**, 12, e0178146 | 3.7 | 19 |
| 58 | Perceptions and attitudes regarding antibiotic resistance in Germany: a cross-sectoral survey amongst physicians, veterinarians, farmers and the general public. *Journal of Antimicrobial Chemotherapy*, **2018**, 73, 1984-1988 | 5.1 | 18 |
| 57 | ESBL-plasmid carriage in enhances in vitro bacterial competition fitness and serum resistance in some strains of pandemic sequence types without overall fitness cost. *Gut Pathogens*, **2018**, 10, 24 | 5.4 | 18 |
| 56 | Real-time PCR assay for the detection of species of the genus Mannheimia. *Journal of Microbiological Methods*, **2008**, 75, 75-80 | 2.8 | 18 |
| 55 | Identification and characterization of "pathoadaptive mutations" of the cadBA operon in several intestinal Escherichia coli. *International Journal of Medical Microbiology*, **2006**, 296, 547-52 | 3.7 | 17 |
| 54 | Comparative study on the high pressure inactivation behavior of the Shiga toxin-producing Escherichia coli O104:H4 and O157:H7 outbreak strains and a non-pathogenic surrogate. *Food Microbiology*, **2015**, 46, 184-194 | 6 | 16 |
| 53 | The GimA locus of extraintestinal pathogenic E. coli: does reductive evolution correlate with habitat and pathotype?. *PLoS ONE*, **2010**, 5, e10877 | 3.7 | 16 |
| 52 | Longitudinal prevalence study of diarrheagenic Escherichia coli in dairy calves. *Berliner Und Munchener Tierarztliche Wochenschrift*, **2007**, 120, 296-306 | | 16 |

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| 51 | Risk factors for MRSA infection in companion animals: results from a case-control study within Germany. *International Journal of Medical Microbiology*, **2014**, 304, 787-93 | 3.7 | 15 |
| 50 | ESBL-plasmids carrying toxin-antitoxin systems can be "cured" of wild-type Escherichia coli using a heat technique. *Gut Pathogens*, **2013**, 5, 34 | 5.4 | 15 |
| 49 | Is fecal carriage of extended-spectrum-lactamase-producing Escherichia coli in urban rats a risk for public health?. *Antimicrobial Agents and Chemotherapy*, **2013**, 57, 2424-5 | 5.9 | 15 |
| 48 | Genomic and Functional Characterization of Poultry From India Revealed Diverse Extended-Spectrum Lactamase-Producing Lineages With Shared Virulence Profiles. *Frontiers in Microbiology*, **2019**, 10, 2766 | 5.7 | 15 |
| 47 | First report of two complete Clostridium chauvoei genome sequences and detailed in silico genome analysis. *Infection, Genetics and Evolution*, **2017**, 54, 287-298 | 4.5 | 14 |
| 46 | Porcine E. coli: virulence-associated genes, resistance genes and adhesion and probiotic activity tested by a new screening method. *PLoS ONE*, **2013**, 8, e59242 | 3.7 | 14 |
| 45 | Effects of Ex Vivo Infection with ETEC on Jejunal Barrier Properties and Cytokine Expression in Probiotic-Supplemented Pigs. *Digestive Diseases and Sciences*, **2017**, 62, 922-933 | 4 | 13 |
| 44 | Immunization with an alphatoxin variant 121A/91-R212H protects mice against Clostridium perfringens alphatoxin. *Anaerobe*, **2006**, 12, 44-8 | 2.8 | 13 |
| 43 | YjjQ Represses Transcription of flhDC and Additional Loci in Escherichia coli. *Journal of Bacteriology* , **2015**, 197, 2713-20 | 3.5 | 12 |
| 42 | Detection of Shiga toxin- and extended-spectrum lactamase-producing Escherichia coli O145:NM and Ont:NM from calves with diarrhoea. *Journal of Antimicrobial Chemotherapy*, **2014**, 69, 2005-7 | 5.1 | 12 |
| 41 | Molecular characteristics of Escherichia coli serogroup O78 strains isolated from diarrheal cases in bovines urge further investigations on their zoonotic potential. *Molecular Nutrition and Food Research*, **2004**, 48, 504-14 | 5.9 | 12 |
| 40 | Comprehensive integrated NGS-based surveillance and contact-network modeling unravels transmission dynamics of vancomycin-resistant enterococci in a high-risk population within a tertiary care hospital. *PLoS ONE*, **2020**, 15, e0235160 | 3.7 | 10 |
| 39 | Analyses of intestinal commensal Escherichia coli strains from wild boars suggest adaptation to conventional pig production conditions. *Veterinary Microbiology*, **2012**, 161, 122-9 | 3.3 | 10 |
| 38 | Enterobacteriaceae populations during experimental Salmonella infection in pigs. *Veterinary Microbiology*, **2010**, 142, 352-60 | 3.3 | 10 |
| 37 | A Look into the Melting Pot: The mecC-Harboring Region Is a Recombination Hot Spot in Staphylococcus stepanovicii. *PLoS ONE*, **2016**, 11, e0147150 | 3.7 | 10 |
| 36 | Molecular Genetic and Functional Analysis of -Harboring, Extra-Intestinal Pathogenic From India. *Frontiers in Microbiology*, **2018**, 9, 2631 | 5.7 | 10 |
| 35 | Lysogenic conversion of atypical enteropathogenic Escherichia coli (aEPEC) from human, murine, and bovine origin with bacteriophage 3538 tx::cat proves their enterohemorrhagic E. coli (EHEC) progeny. *International Journal of Medical Microbiology*, **2018**, 308, 890-898 | 3.7 | 9 |
| 34 | Neutralization of hemolytic and mouse lethal activities of C. perfringens alpha-toxin need simultaneous blockade of two epitopes by monoclonal antibodies. *Microbial Pathogenesis*, **1997**, 23, 1-10 | 3.8 | 9 |

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| 33 | Multidrug- and methicillin resistant Staphylococcus pseudintermedius as a cause of canine pyoderma: a case report. *Berliner Und Munchener Tierarztliche Wochenschrift*, **2010**, 123, 353-8 | | 9 |
| 32 | Beta-hemolytic Streptococcus dysgalactiae strains isolated from horses are a genetically distinct population within the Streptococcus dysgalactiae taxon. *Scientific Reports*, **2016**, 6, 31736 | 4.9 | 8 |
| 31 | tkt1, located on a novel pathogenicity island, is prevalent in avian and human extraintestinal pathogenic Escherichia coli. *BMC Microbiology*, **2012**, 12, 51 | 4.5 | 8 |
| 30 | Antimicrobial resistances do not affect colonization parameters of intestinal E. coli in a small piglet group. *Gut Pathogens*, **2009**, 1, 18 | 5.4 | 8 |
| 29 | STEC as a veterinary problem. Diagnostics and prophylaxis in animals. *Methods in Molecular Medicine*, **2003**, 73, 75-89 | | 8 |
| 28 | Evidence for Contemporary Switching of the O-Antigen Gene Cluster between Shiga Toxin-Producing Strains Colonizing Cattle. *Frontiers in Microbiology*, **2017**, 8, 424 | 5.7 | 7 |
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| 26 | Long-term clonal lineages within Campylobacter jejuni O:2 strains from different geographical regions and hosts. *International Journal of Medical Microbiology*, **2005**, 294, 521-4 | 3.7 | 7 |
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| 23 | Antibiotic resistance, the 3As and the road ahead. *Gut Pathogens*, **2018**, 10, 52 | 5.4 | 6 |
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| 21 | Germany's expanding role in global health. *Lancet, The*, **2018**, 391, 657 | 40 | 4 |
| 20 | Analysis of mutations in pncA reveals non-overlapping patterns among various lineages of Mycobacterium tuberculosis. *Scientific Reports*, **2018**, 8, 4628 | 4.9 | 4 |
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| 18 | Pathotyping bla CTX-M Escherichia coli from Nigeria. *European Journal of Microbiology and Immunology*, **2013**, 3, 120-5 | 4.6 | 4 |
| 17 | Antimicrobial susceptibilities and occurrence of resistance genes in bovine Helcococcus ovis isolates. *Veterinary Microbiology*, **2011**, 149, 488-91 | 3.3 | 4 |
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# List of Publications

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|---|---|---|---|
| 15 | Novel Avian Pathogenic Escherichia coli Genes Responsible for Adhesion to Chicken and Human Cell Lines. *Applied and Environmental Microbiology*, **2020**, 86, | 4.8 | 4 |
| 14 | Silence as a way of niche adaptation: mecC-MRSA with variations in the accessory gene regulator (agr) functionality express kaleidoscopic phenotypes. *Scientific Reports*, **2020**, 10, 14787 | 4.9 | 4 |
| 13 | Evolutionary Dynamics Based on Comparative Genomics of Pathogenic Escherichia coli Lineages Harboring Polyketide Synthase () Island. *MBio*, **2021**, 12, | 7.8 | 3 |
| 12 | Smear Microscopy for Diagnosis of Pulmonary Tuberculosis in Eastern Sudan. *Tuberculosis Research and Treatment*, **2018**, 2018, 8038137 | 2.1 | 2 |
| 11 | Microevolution of epidemiological highly relevant non-O157 enterohemorrhagic Escherichia coli of serogroups O26 and O111. *International Journal of Medical Microbiology*, **2018**, 308, 1085-1095 | 3.7 | 2 |
| 10 | Genome Sequence of Porcine Escherichia coli Strain IMT8073, an Atypical Enteropathogenic E. coli Strain Isolated from a Piglet with Diarrhea. *Genome Announcements*, **2013**, 1, | | 2 |
| 9 | A Real-Time Thermal Sensor System for Quantifying the Inhibitory Effect of Antimicrobial Peptides on Bacterial Adhesion and Biofilm Formation. *Sensors*, **2021**, 21, | 3.8 | 2 |
| 8 | Determination of virulence and fitness genes associated with the , and integration sites of LEE-negative food-borne Shiga toxin-producing strains. *Gut Pathogens*, **2018**, 10, 43 | 5.4 | 2 |
| 7 | One-Health-Konzept: Eine Antwort auf resistente Bakterien? | | 1 |
| 6 | Infections With Multidrug-Resistant Bacteria□Has the Post-Antibiotic Era Arrived in Companion Animals? **2015**, 433-452 | | 1 |
| 5 | Comparison of different technologies for the decipherment of the whole genome sequence of BfR-CA-14430. *Gut Pathogens*, **2019**, 11, 59 | 5.4 | 1 |
| 4 | Genome Sequence Analysis of Strains of European Origin and Evaluation of Typing Options for Outbreak Investigations. *Frontiers in Microbiology*, **2021**, 12, 732106 | 5.7 | 1 |
| 3 | Origin and Global Expansion of Mycobacterium tuberculosis Complex Lineage 3. *Genes*, **2022**, 13, 990 | 4.2 | 1 |
| 2 | First Comparative Analysis of Genomes Provides Insights Into the Taxonomy, Species Genetic Diversity, and Virulence Related to Gas Gangrene.. *Frontiers in Microbiology*, **2021**, 12, 771945 | 5.7 | |
| 1 | One Health **2020**, 45-49 | | |